An Suquing into the Cause of Inflammation in wounded Cavities. aines Thomas of Mary land.

Wounds penetrating the larger carries of the human body have long ban observed to accase sion more fatal consequences than similar wounds in other parts . For the purpose of explaining This circumstance Pathologists have formed momy theories - atmospheric air entering the exposed cavity was believed to be the offencting cause on which was founded perhaps one of the first and most popular theires. To refute the opinion that air proves an irritant to cavities which have been unaccustomed to its action and is the cause of the inflammation which



supervenes on the exposure of such cavities, omitting the arguments deduced from cases of emphysema by Mr. Hunter I need only relate some experiments made by Lactor Thysich and detailed in his lectures on surgery . - In 1491 when a student at Edinburgh De Physich made the follow ing experiment which proves that air is not an irritant - The thorax of a hitten was opened and injected with atmopheric air; the wound was united by the first intention and in three days the hillen was

and the first in morning

killed upon examination the two seeks of the thoras were totally and equally free from all vestiges of inflammation. D. Physich relates also the case of an officer who having entered into a quarrel received a stab with a durk in the breast, the cavity of the thorax and the lungs were so wounded that air passed freely into and out of the chest Through the wound, - This Gentlemen was completely cured in a week without one symptom of inflamed pleured. Be living the above cases sufficient to estamade the wound - This Partle in

blish the mild and unoffending nature of air when admitted into wounded cavities we proceed to the conideration of the opinion of M. John Hunter undoubtedly the most correct which has been held on the subject . In all cases of a wound punitrating a circumscribed cavity the cavity is rendered imperfect which with Mr Aunter is the sole cause of the extension inflammation which is sometimes consequent on such an accident. That the position M. Hunter has taken is a just one I think common observation

alone would testify; for in all cases where a carry is exposed and continues to be exposed a considerable time we find that inflammation never fails to make its appearance, on the other hand if it be united by the first intention no inconvenience is quither cape runced and no symptom of inflammation is observable of immediately after a wound is made into a cavity any portion of the contents of the country be probuded in such a manner that adhesion takes place



believen the pretructed just and the cages of The wound the curity which by such adhase on is rendered . perfect loves all dispose tion to take on an inflammatory action an ingenious allempt has been made by Dr. Cocke now of Buttimore in aninau qual differtation published in the year 1804 to overthrow the opinion of Mr. Souter by duffinding Sout a dimention of longier ative would account in all the pinemina which were in wearded ca vitus but in no one instance has the



I color proved that a diminution of Comperature actually takes place. From some experiments made by It Bunta (und altho he had a different object in tries they unswer my purpose) I think sam warrunted in concluding that a diminution of temperature does not take place . - one of the experiments allucted to I shall take the liberty of relating . - an incide vien was made interhe thorax of a dog a Thermometer was pushed down to as to come



in centact or neverty so with his diophram The degree of heat was anchundred and in The wound was not allowed to head by The first intention the day optiowing The Phermometer was again introduced The degree of heat appeared exactly the came, Two lown from the observations of M: Funter that the internal coats of veins are liable to an extensive and dangerous inflammation when functioned and union by the first intention does no.



take place . - here undoubtedly De Gocho Theory cannot hold good - no air is admitted into the cavity consequently no eliminution of temperature is produced - if we by the upplication of a compress effect an adhe - sion between the sides of the bein so aste under the curity hortest we hack is instantly much to the progrey of the inflammation which certainly tend very much to the Support of M. Hunters of vision _ We well know that the temperature of a



limb may be diminished almost to freezing without producing inflammation, but if one of the joints be wounded and the edges of the wound nept from uniting the phenomena of inflamed cavities are occessioned. What one reason have we for supposing that air of the temperature of 70. or so will excite by its coldness inflammation in the thorax? In the warmest as in the coldest seasons, the phenomena of infla ammation are the same and the only

of our of the just to remove and the

circumstance necessary to excite it, is the imperfection of the cavity.

